Fermilab Today

Tuesday, July 20, 2004

Calendar

Tuesday, July 20
Noon Summer Lecture Series - 1 West
Speaker: A. Lennox, Fermilab
Title: Neutrons Against Cancer
3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
Speaker: K. Bishofberger, University of California, Los Angeles
Title: Using the Tevatron Electron Lens for Tune-Shift Compensation

Wednesday, July 21
3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
4:00 p.m. Fermilab Colloquium - 1 West
Speaker: J. Baller, Baller Herbst Law Group
Title: Bringing "True" Broadband to America

Wilson Hall Cafe

Tuesday, July 20
Tomato Bisque
Pesto Marinated Chicken Breast $4.75
Burgundy Beef Tips $4.25
Baked Fish Creole over Rice $3.75
Grilled Chicken Caesar Wrap $4.75
Pepperoni Lover's Calzones $2.75
Rio Grande Taco Salads $4.75
Wilson Hall Cafe Menu
Chez Leon

Weather

Arts Series: Jazz Quartet Free Flight at Fermilab on July 31

Jim Walker & Free Flight

The music of Free Flight has turned jazz fans into classical buffs and classical audiences toward jazz. From Bach to Miles Davis to the Beatles, the range of musical influences exhibited by Free Flight is evident in every piece. Each composition blends together flavors of classical music, jazz, new age, and rock into a palatable whole. Listen for yourself when band leader Jim Walker brings his award-winning group to Fermilab's Ramsey Auditorium on Saturday, July 31 at 8 p.m., presented by the Fermilab Arts Series. Walker will give a pre-concert talk in room One West beginning at 7 p.m., free of charge. To preview a taste of what's in store, click here for a 20-second music sample (Real Player required).

Free Flight has appeared on The Tonight Show and at the Lincoln Center. Recent performances include sell-out concerts at the Interlochen Jazz Festival, Chautauqua, and the Hollywood Bowl. The group has produced eight recordings.

Director's Corner

Good Morning!

Mike Witherell

I was over in the Main Control Room Friday around 11:30 to watch the collider shot. It was a "mixed pbar" shot, using antiprotons from both the Accumulator and the Recycler. Enough antiprotons were stored in the two rings that if the shot worked it was going to be a record. They were swinging for the fences, and a lot of extra people gathered in the control room to watch.

People watched with anticipation as the experts supervised the intricate choreography among the four accelerators (Accumulator, Recycler, Main Injector, and Tevatron). Finally, as the beams were brought into collision, it became clear that it had all worked perfectly. We celebrated a record store of over 10^{32}.

At the start of 2004 we were still coming out of the shutdown and the record luminosity was still below $5x10^{31}$. If somebody had told me then that before the annual shutdown we would hit 10^{32} luminosity using antiproton transfers from both antiproton rings, I would have thought them crazy. It has been an exceptional year.

Chance Thunderstorms 86º/72º

Extended Forecast

Weather at Fermilab

Current Security Status

Secon Level 3

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Our Readers Respond

Dmitri Denisov, of PPD and the DZero experiment, respond to the Sacramento Bee's "Scholars in Limbo" story that ran in the July 7 issue of *Fermilab Today*:

Dear Editors,

After reading the Sacramento Bee article "Scholars in Limbo," I want to share with you some disturbing numbers that represent how seriously the U.S. visa issue is affecting international cooperation. Since the summer of 2002, obtaining a U.S. visa has become one of the major issues for the participation of

Dmitri Denisov

almost 60 Russian scientists in the DZero Experiment at Fermilab. The average duration of waiting for a U.S. visa is about 5 months, with the shortest waiting period being one month and the longest waiting period being over 15 months. Only single entry visas are allowed with each entry period limited to two months, which makes planning visits to participate in detector operation and physics analysis practically impossible. The total time spent by the DZero collaborators waiting for U.S. visas has exceeded 20 years! After working

Another reason to celebrate: the Linac and Booster were able to deliver a record 10^{19} protons to MiniBooNE last week.

It is a great year for the Fermilab accelerators, and it will lead to some great physics results in the year ahead.

Accelerator Update

July 16 - July 19
- The Tevatron achieved the second best weekly integrated luminosity, 16 inverse picobarns
- A new initail luminosity record of 103.43 E30.
- Operations established 3 stores during the last seventy-two hours.
- They delivered approximately sixty-one hours and forty-five minutes of luminosity to the experiments.

View the current accelerator update
View the Tevatron Luminosity Charts

Announcements

New Performance Review Form
Lab Service has posted a new performance review form that is a plain Microsoft Word document. It does not contain protected form fields. It may be used by people who are having problems using the form fields. It can also be opened by people who use OpenOffice or StarOffice. The new form is available online. If you have any questions contact Cindy Crego at x3278 or crego@fnal.gov

Attention Fermilab Users:
2004 UEC Committee Elections
The 2004 Users Executive Committee election began yesterday and will

over five years on the DZero experiment upgrade, Igor Vasiliev from IHEP(Protvino) has been waiting for a U.S. visa for over 15 months and has no clue as to when he will be able to continue his work at Fermilab. In addition to badly affecting current Fermilab experiments, the U.S. visa issue creates serious concerns about the participation of scientists from other countries in the future U.S. based programs.

Dmitri Denisov, PPD/DZero Experiment

In the News

From SDSS, July 19, 2004

Dark Energy, Inflation and Neutrino Mass News

Using observations of 3,000 quasars discovered by the Sloan Digital Sky Survey (SDSS), scientists have made the most precise measurement to date of the cosmic clustering of diffuse hydrogen gas. These quasars -- 100 times more than have been used in such analyses in the past -- are at distances of eight to ten billion light years, making them among the most distant objects known.

read more

close on Monday, August 2. The UEC has 10 candidates running for 6 positions. The web ballot as well as bios and statements from the candidates can be found online. The election is open to all Fermilab users and will be conducted via the web. Please vote!!!!

Linear Collider Listserv

A Fermilab International Linear Collider R&D listserv is now available. Anyone interested in receiving emails about International Linear Collider activities is invited to subscribe. To subscribe to the Fermilab_LC_RD listserv, send an email to listserv@fnal.gov, leave the subject line blank, and type in the body of the message SUBSCRIBE Fermilab_LC_RD FIRSTNAME LASTNAME.

New Fermilab Virtual Tour Available Online

Check out the newly updated virtual tour on Fermilab's website. It is the next best thing to visiting the lab in person!